

What is claimed is:

1. A spreadsheet Web server system which sends client means, over the Internet or an intranet, according to HTTP, a table frame and cell data of the table frame that are a hyperlink document and are to be displayed in the client means and which generates, modifies, or deletes a table frame or cell data of a spreadsheet program according to a request from the client means, comprising:

spreadsheet means for generating, modifying, and deleting a table frame, the spreadsheet means comprising table frame recording means for recording table frames in which cells are arranged in at least one of a row direction and a column direction;

database means for recording and managing, as tables, cell data groups to be displayed in cells of a table frame;

Web server means for sending the client means a table frame and cell data of the table frame that are a hyperlink document and are to be displayed in the client means and receiving, from the client means, a request for generation, modification, or deletion of cell data by performing data communication with the client means over the Internet or the intranet according to HTTP; and

spreadsheet assisting means for reading cell data from the database means and causing the spreadsheet means to generate a hyperlink document file of a table frame and the read-out cell data according to a request from the client means, or for causing the database means to generate, modify, or delete a record

according to a request from the client means for generation, modification, or deletion of cell data,

wherein the spreadsheet assisting means inserts or attaches a primary key value of a table of the database means corresponding to the table frame generated as the hyperlink document file by the spreadsheet means into or to the hyperlink document file; and

wherein the Web server means sends the client means the hyperlink document file in or to which the primary key value is inserted or attached, and, in receiving a request for generation, modification, or deletion of cell data from the client means, receives, from the client means, the primary key value that was inserted into or attached to the hyperlink document file when the hyperlink document file was sent to the client means.

2. The spreadsheet Web server system according to claim 1, wherein the spreadsheet assisting means comprises link information recording means which records link information that correlates the table frames held by the spreadsheet means with the tables held by the database means.

3. The spreadsheet Web server system according to claim 1 or 2, wherein when receiving a request for generation, modification, or deletion of cell data from the client means the spreadsheet assisting means judges whether the primary key value that was sent to the client means coincides with the primary key value that has been received from the client means, and wherein

the spreadsheet assisting means causes the database means to generate, modify, or delete a record designated by the primary key value according to the request from the client means if they coincide with each other, and does not cause the database means to generate, modify, or delete the record if they do not coincide with each other.

4. The spreadsheet Web server system according to any one of claims 1 to 3, wherein the cell data group of each of the tables held by the database means has cell data, as parent data, displayed in at least one cell of a corresponding table frame, and has the parent data only, or the parent data and at least one child data that is linked to the parent data.

5. The spreadsheet Web server system according to claim 4, wherein the spreadsheet assisting means causes, according to a request from the client means, the spreadsheet means to generate, as a hyperlink document file, a table frame in which to display a child data group of a cell concerned of a table frame being displayed in the client means and the child data group and the Web server means sends the hyperlink document file generated by the spreadsheet means to the client means, or wherein the spreadsheet assisting means causes the database means to generate, modify, or delete a record according to a request from the client means for generation, modification, or deletion of child data.

6. The spreadsheet Web server system according to any one

of claims 1 to 5, wherein the database means can combine a plurality of tables having the same column item at different column positions.

7. The spreadsheet Web server system according to any one of claims 1 to 6, wherein the spreadsheet assisting means has a sequence of commands for processing a request from the client means, the commands being executed sequentially.

8. The spreadsheet Web server system according to any one of claims 1 to 6, wherein the spreadsheet assisting means has objects for processing a request from the client means, and wherein a request from the client means is processed by one object or processed by a plurality of objects in such a manner that a transition is made from one object to another.

9. The spreadsheet Web server system according to claim 8, wherein at least one of the objects has at least one action that is a sequence of commands for processing a request from the client means, the commands being executed sequentially, and wherein an object or an action is called by the client means or another action.

10. The spreadsheet Web server system according to claim 8 or 9, wherein the objects are provided for the respective table frames.

11. A spreadsheet Web server system which sends client means, over the Internet or an intranet, according to HTTP, a spreadsheet file having a table frame and cell data to be displayed

in the client means and which generates, modifies, or deletes a table frame or cell data of a spreadsheet program according to a request from the client means, comprising:

spreadsheet means for generating, modifying, and deleting a table frame or cell data, the spreadsheet means comprising table recording means for recording table frames in which cells are arranged in at least one of a row direction and a column direction and cell data to be displayed in the cells of the table frames;

Web server means for sending the client means a spreadsheet file to be displayed in the client means and receiving, from the client means, a request for generation, modification, or deletion of a table frame or cell data by performing data communication with the client means over the Internet or the intranet according to HTTP; and

spreadsheet assisting means for causing the spreadsheet means to generate a spreadsheet file according to a request from the client means, or for causing the spreadsheet means to generate, modify, or delete a table frame or cell data according to a request from the client means.

12. A spreadsheet Web system comprising:

the spreadsheet Web server system according to any one of claims 1 to 10; and

client means that performs data communication with the Web server means over the Internet or the intranet according

to HTTP.

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